GeneAmp® PCR System 2700 Routine Maintenance

To maintain the instrument in top working order it is advisable to perform routine maintenance on the instrument. Depending on the level of usage of the instrument, it is recommended that the following procedures be performed at least 2-4 times per year. For high end users a 3-month maintenance cycle is recommended and for lower end users a 6-month maintenance cycle is recommended.

Cleaning the Sample Wells:

- Turn off the instrument and let instrument cool for 10-15 minutes.
- Thoroughly clean wells with a cotton swap soaked with 100% isopropanol.
- If wells are contaminated, clean thoroughly with a cotton swab soaked with a 10% bleach solution.
- Rinse wells with water.
- Wells should be completely dry before using instrument.

Cleaning the Heated Cover Assembly:

- Turn off the instrument and let instrument cool for 20-30 minutes.
- Raise the lever on the heated cover assembly. Please refer to the GeneAmp® PCR System 2700 User's Manual for detailed information on raising the heated cover assembly.
- Gently wipe the bottom of the heated platten with a cloth soaked with 100% isopropanol.
- If the heated platten is contaminated, wipe the bottom of the cover with a cloth soaked in a 10% bleach solution.
- Rinse with water.
- Wait for the platten to dry before returning the cover to its normal position.

Running the Temperature Verification Tests:

The Temperature Verification Tests includes running the Temperature Calibration Test and Temperature Non-Uniformity Test (TNU). These tests are designed to assess the thermal dynamics of the instrument. Please refer to the GeneAmp® PCR System 2700 User's Manual for complete instructions.

NOTE: The following procedures require the use of a Temperature Verification System: 96 well block – TVS P/N 4317939

- Temperature Calibration Test -verifies that the instrument meets temperature accuracy specifications
- Temperature Non-Uniformity Test - verifies the temperature uniformity of the sample block

An instrument that fails these tests may require service by a qualified Applied Biosystems repair specialist. Please call 1-800-762-4001 to contact Thermal Cycler Service Support (U.S. only). For all other countries, please contact your local Applied Biosystems service representative.

Running the System Performance Tests:

The System Performance Tests include running the Rate Test and the Cycle Test. These tests are designed to assess the integrity of the heating and cooling system. Please refer to the GeneAmp® PCR System 2700 User's Manual for complete instructions.

- Rate Test - verifies that the Peltier units are operating correctly
- Cycle Test - verifies that the PCR cycling function is operating correctly

An instrument that fails these tests may require service by a qualified Applied Biosystems repair

specialist. Please call 1-800-762-4001 to contact Thermal Cycler Service Support (U.S. only). For all other countries, please contact your local Applied Biosystems service representative.

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